

Fig. 1

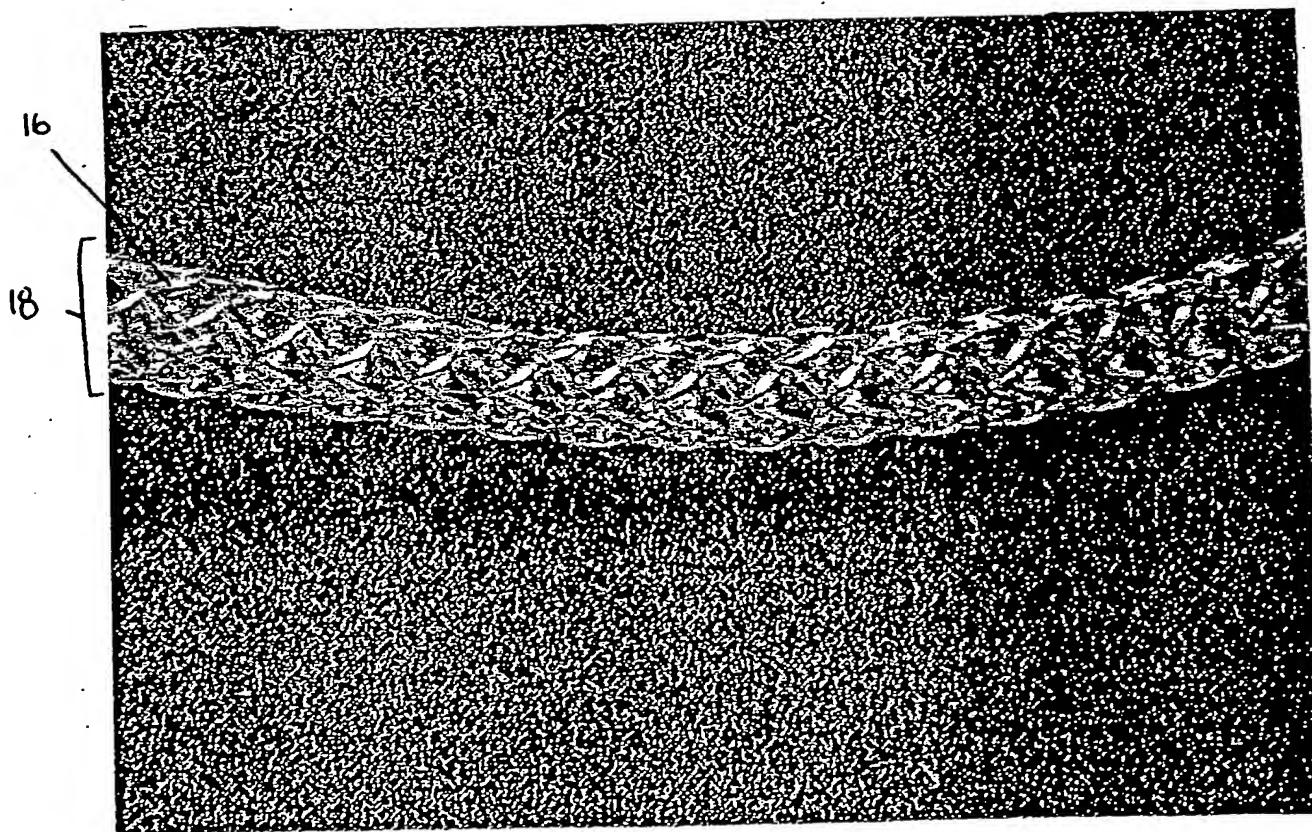


Fig. 2

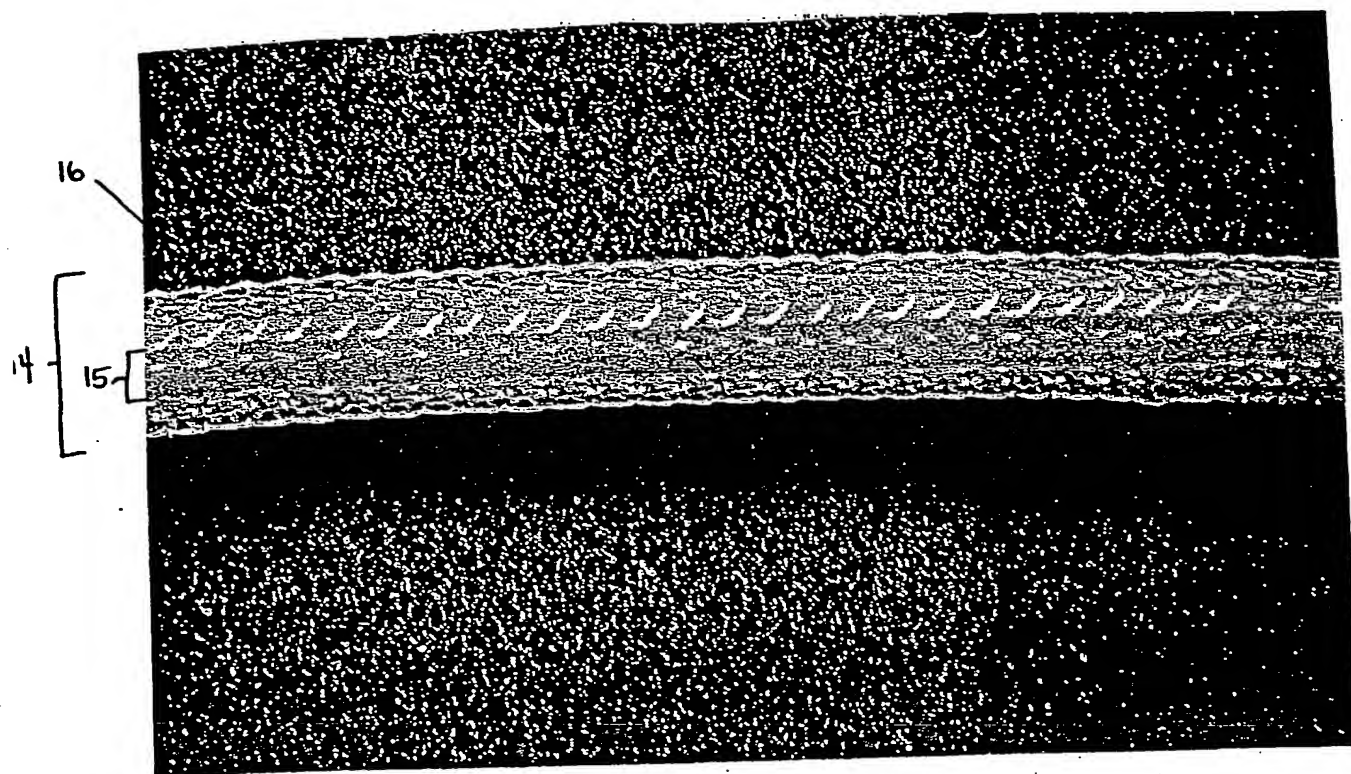


Fig. 2A

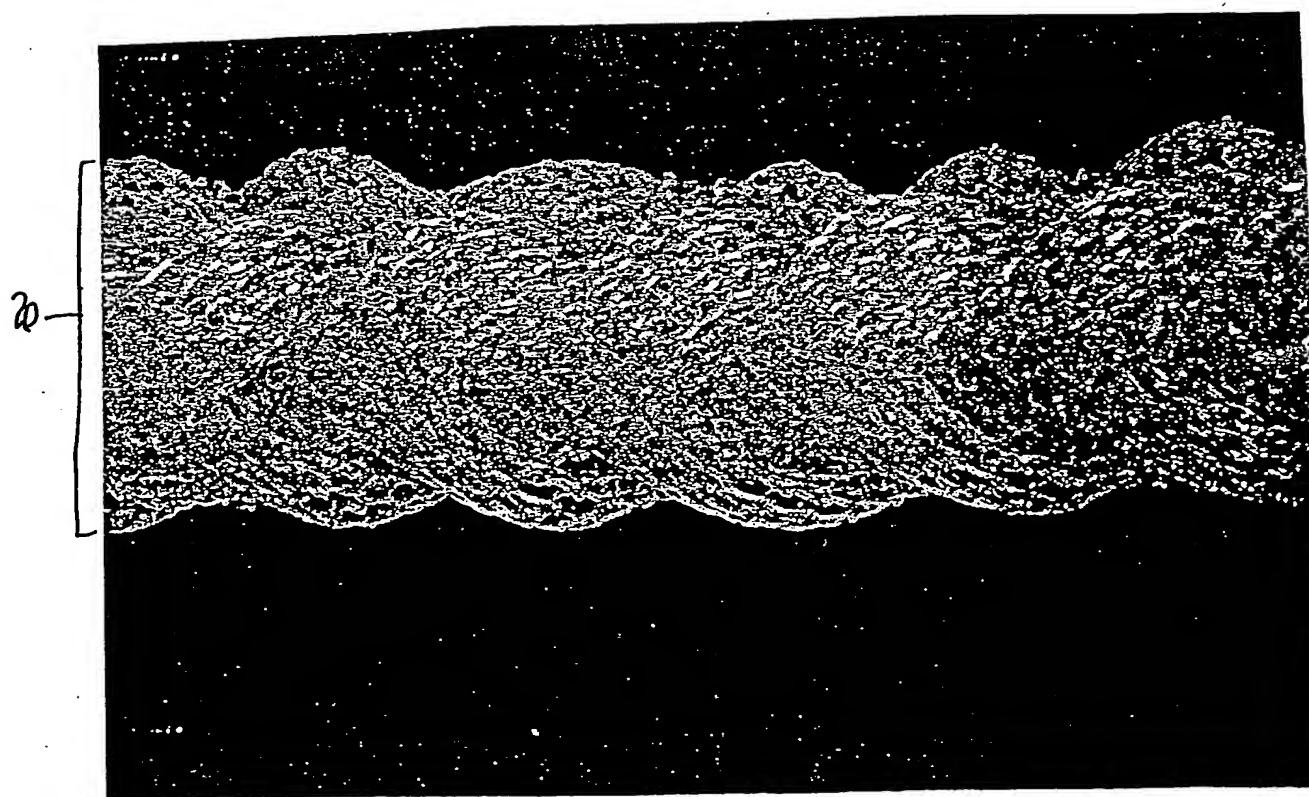


Fig. 3

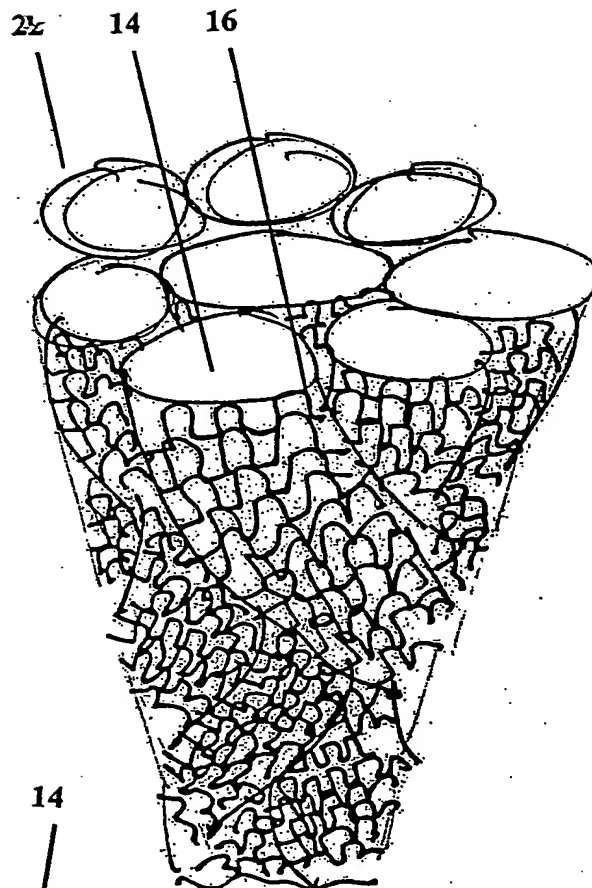


FIG 4

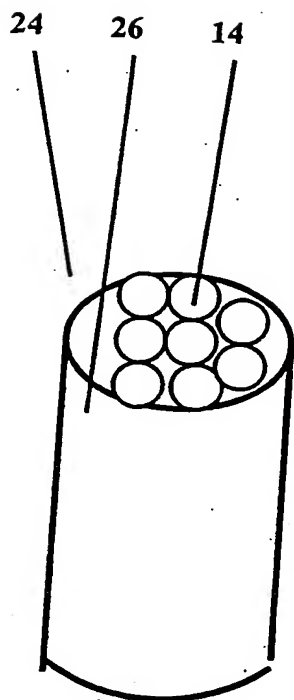


FIG 5A

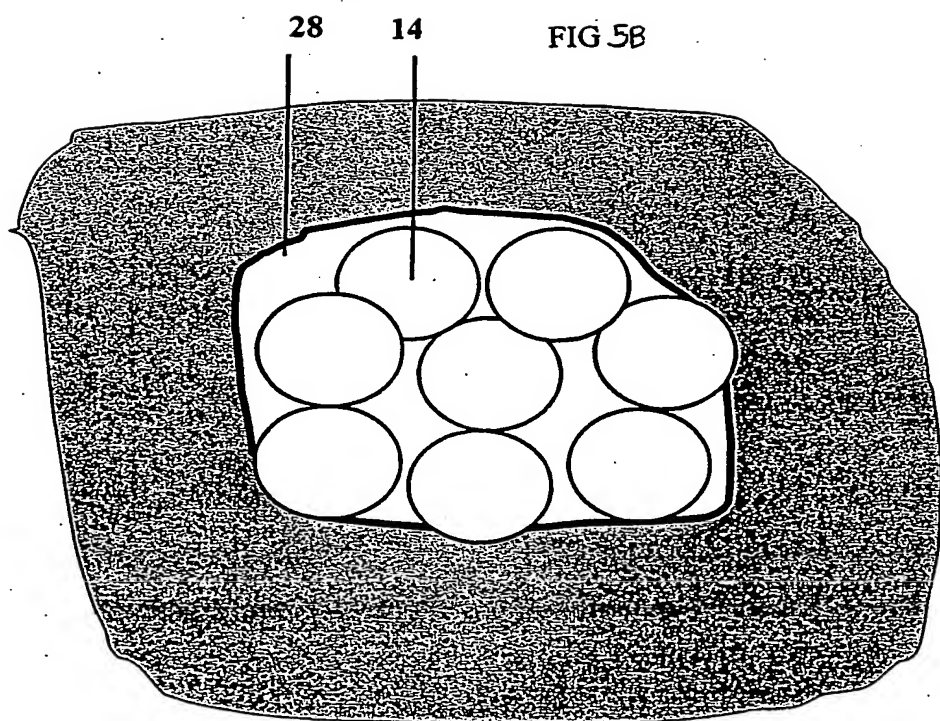
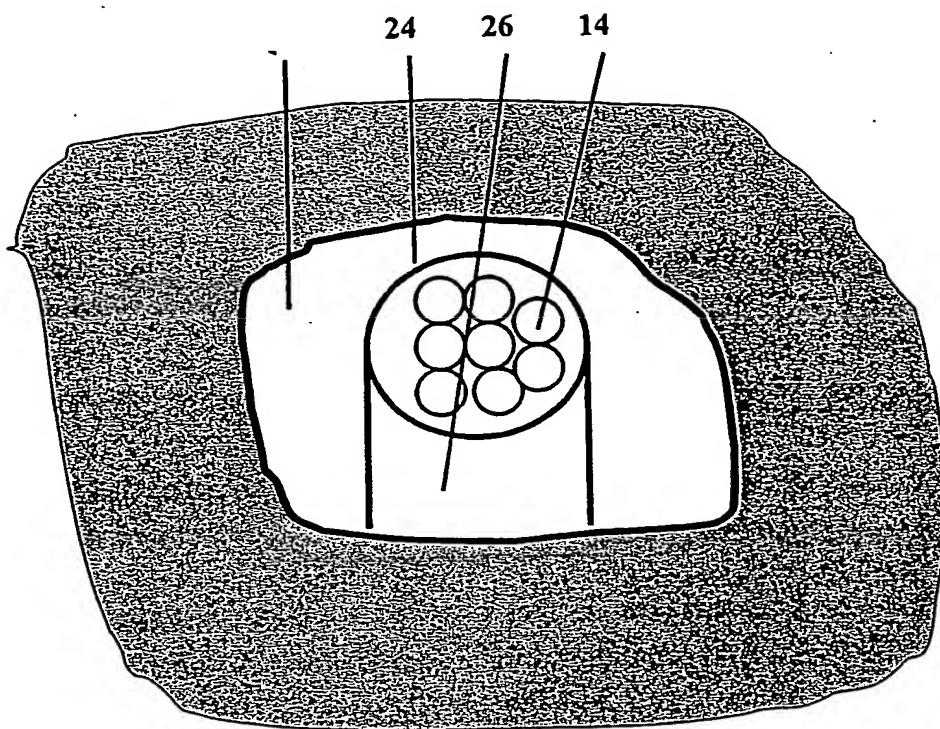


FIG 56

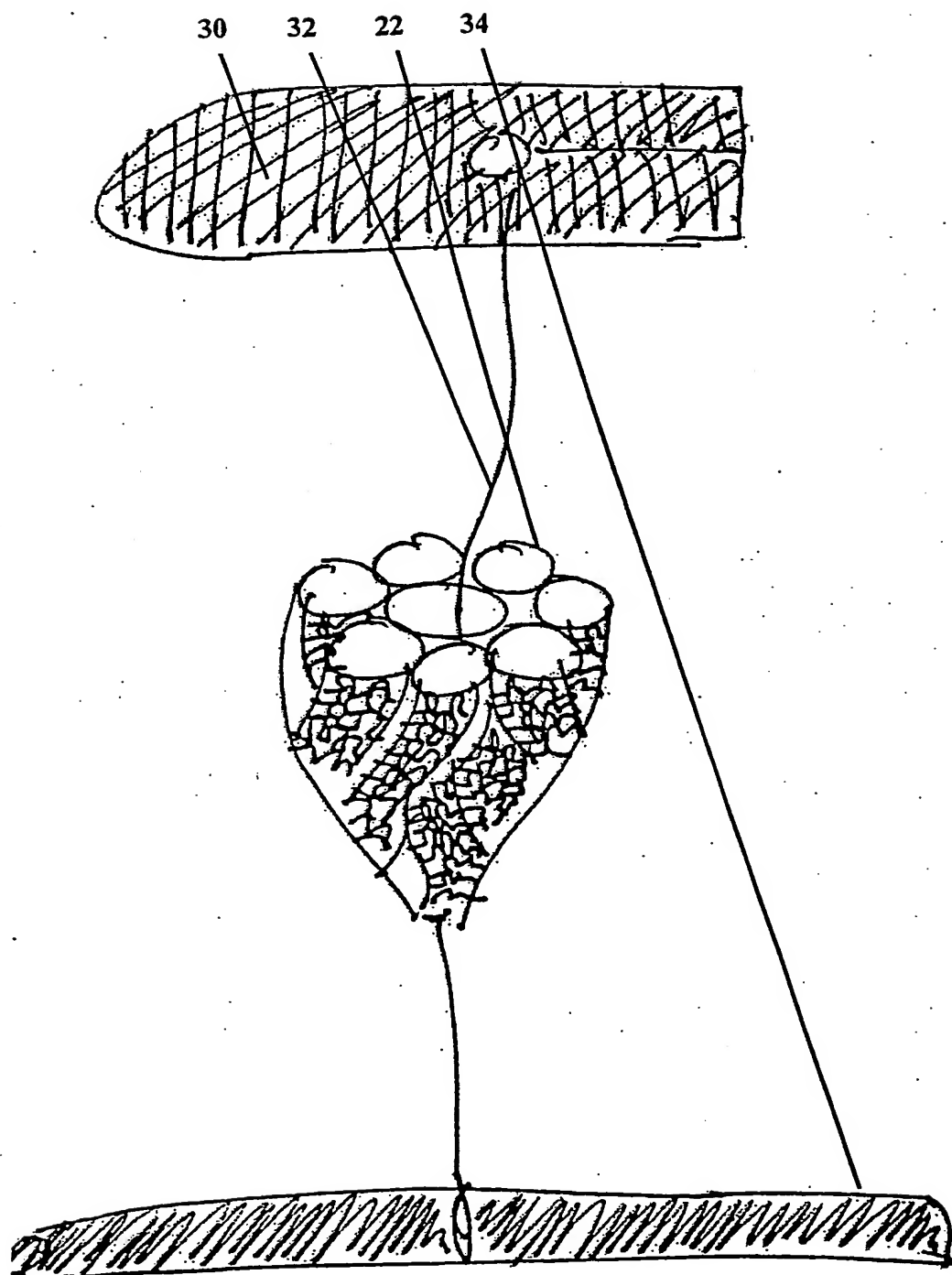


FIG 6A

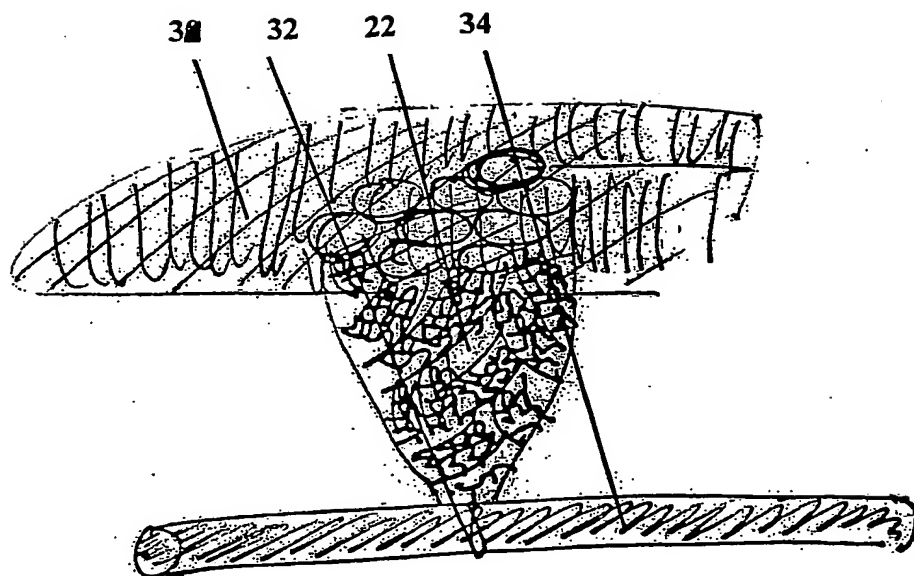


FIG 6B

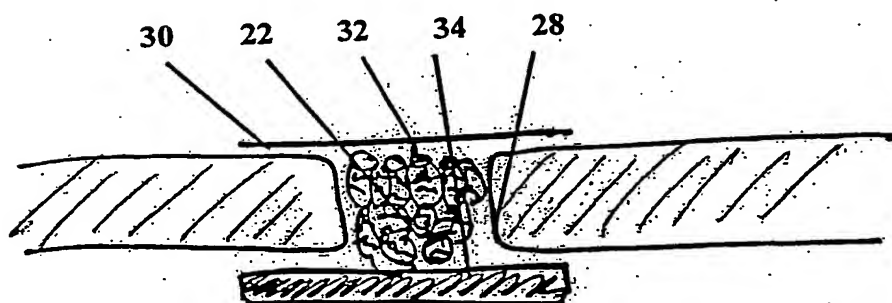
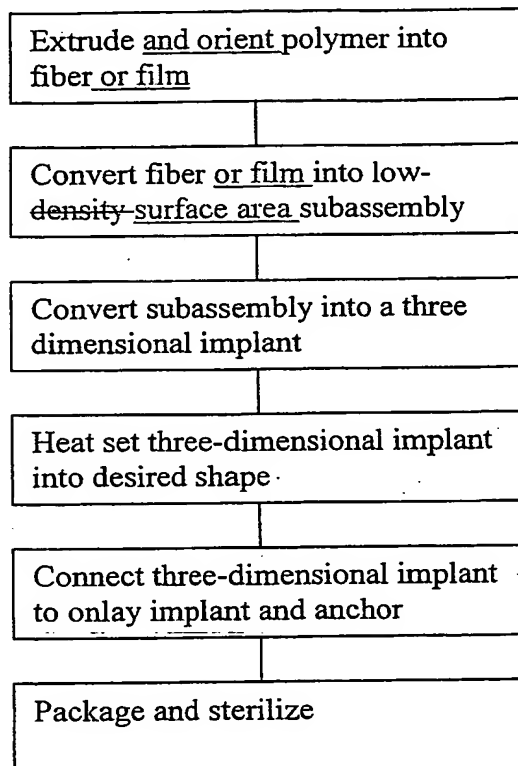


FIG 6C

Method for producing soft tissue implantFIG. 7

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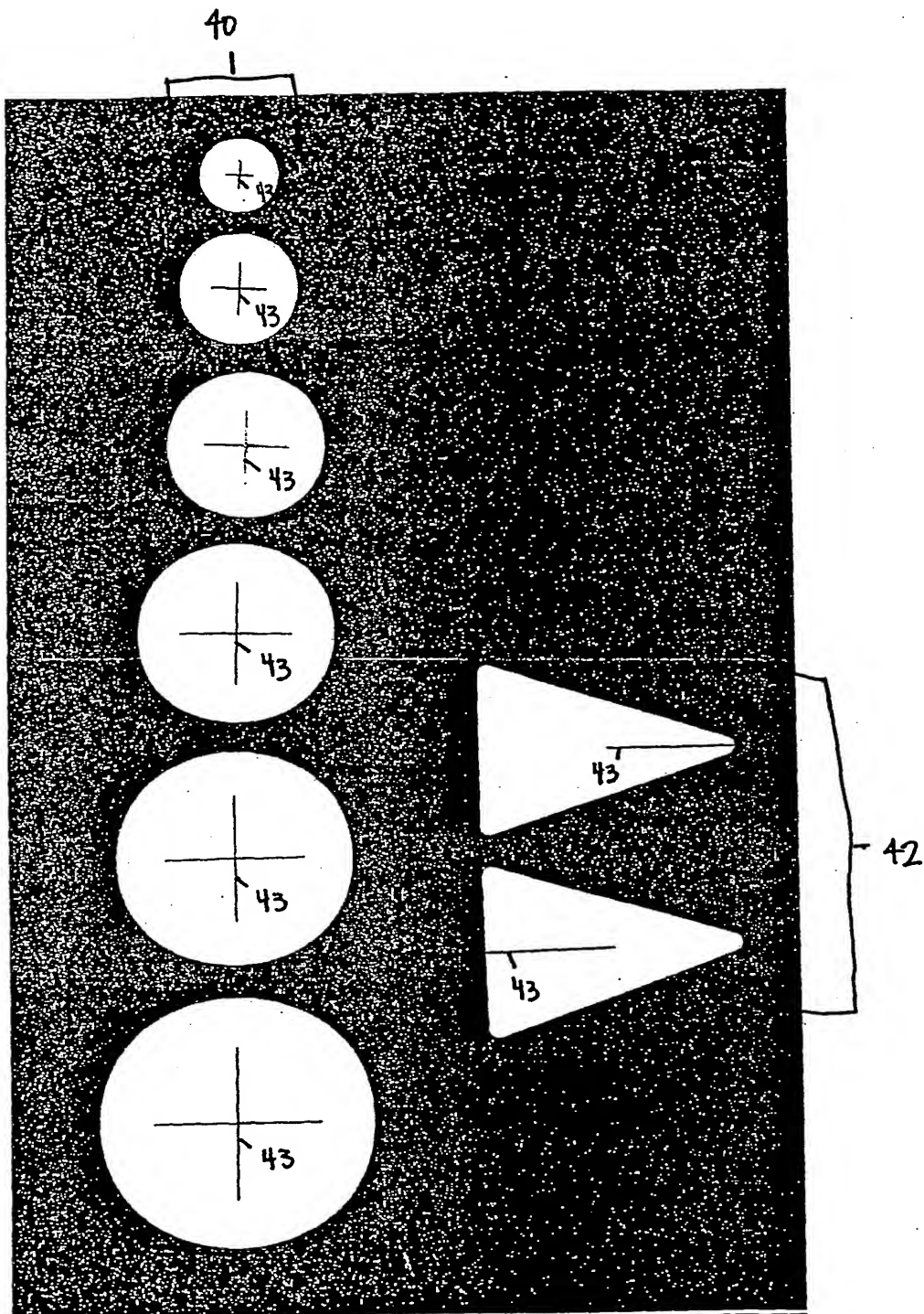


Figure 8A

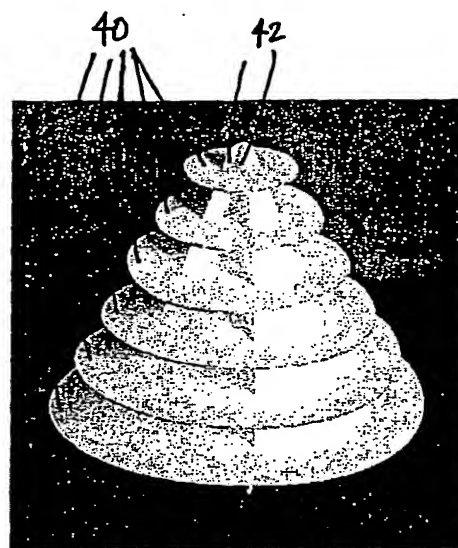


Figure 8B

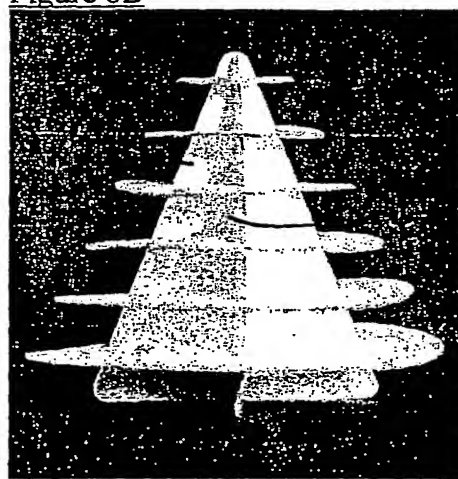


Figure 8C

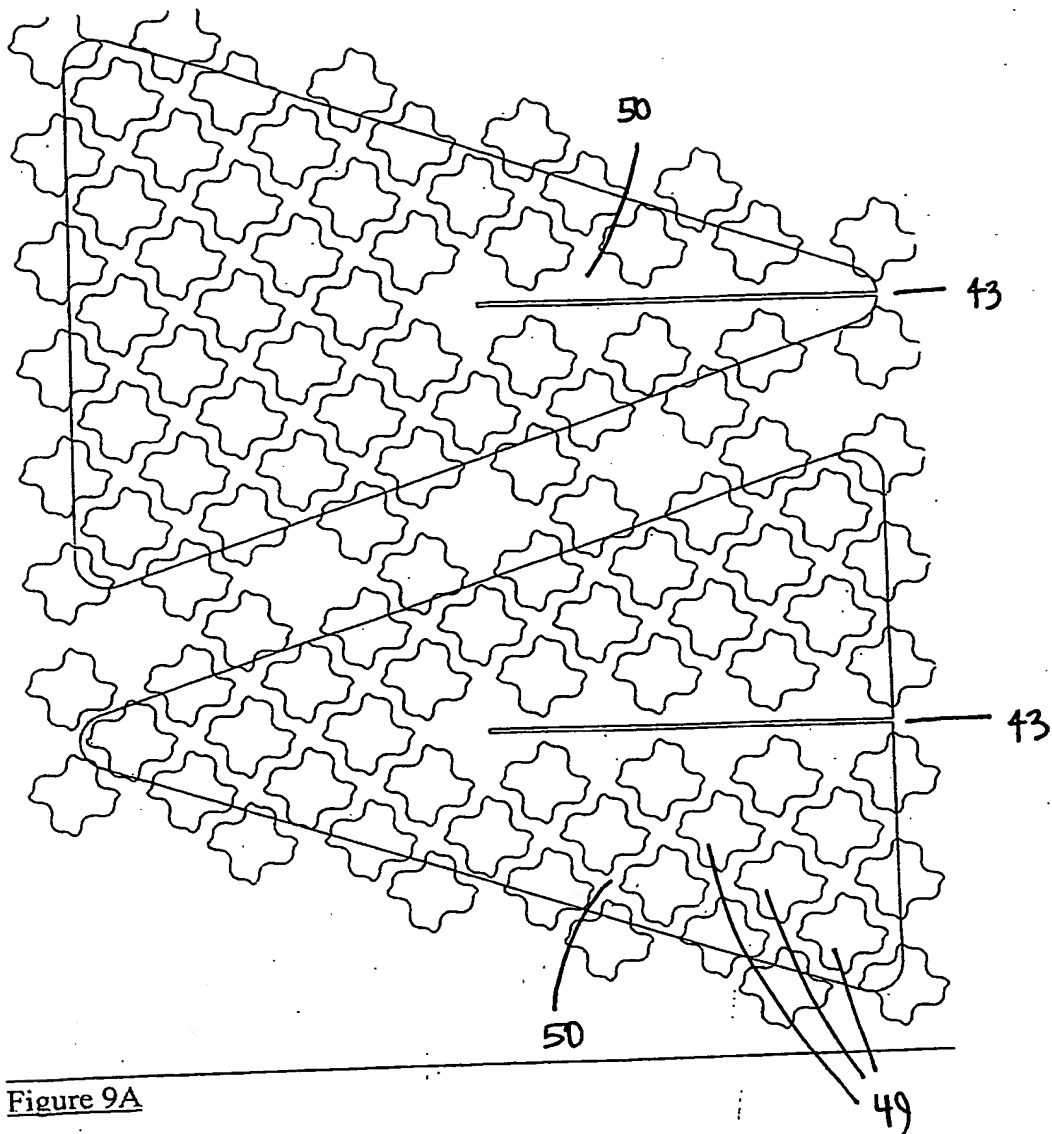


Figure 9A

10/525193

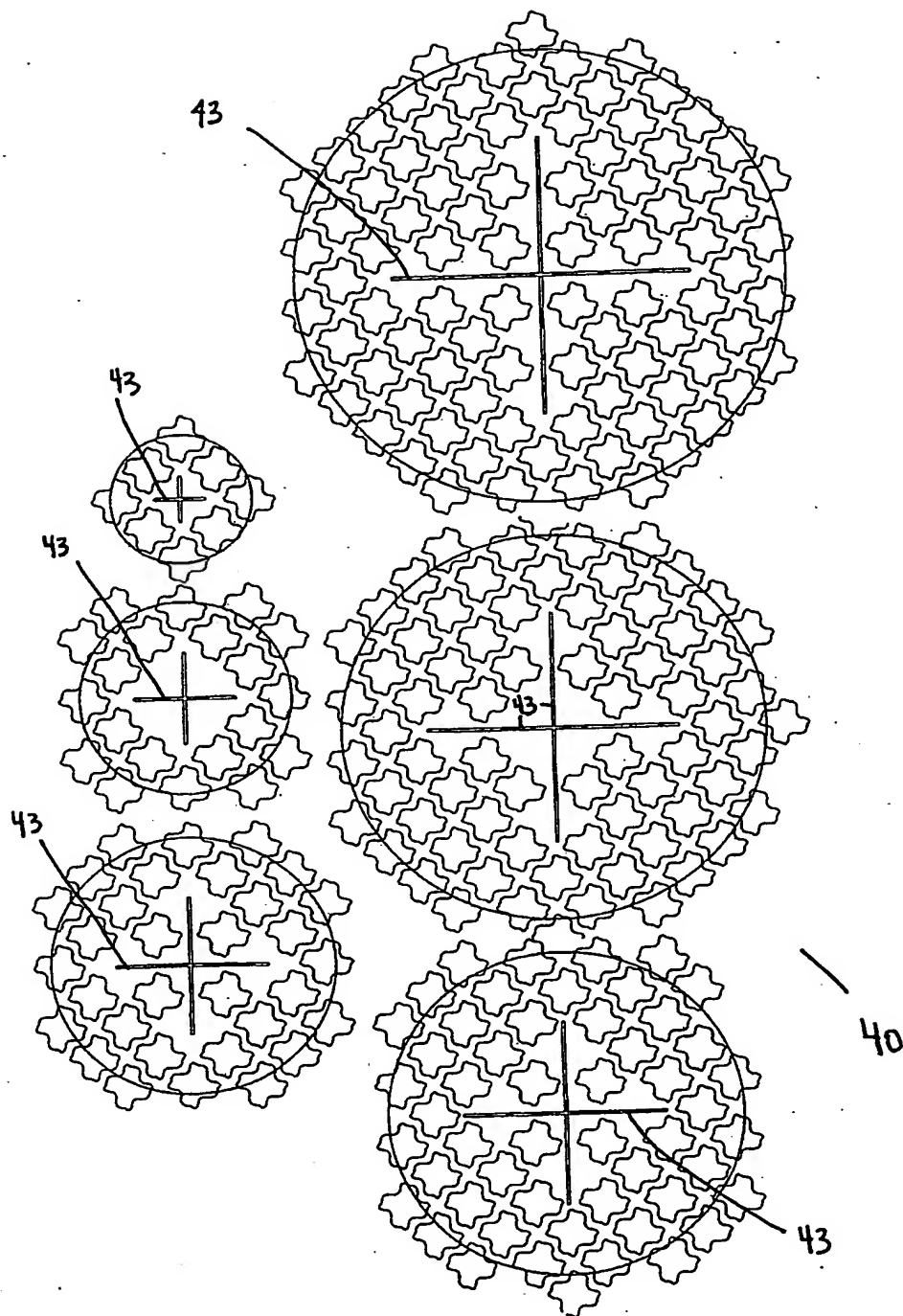


Figure 9B

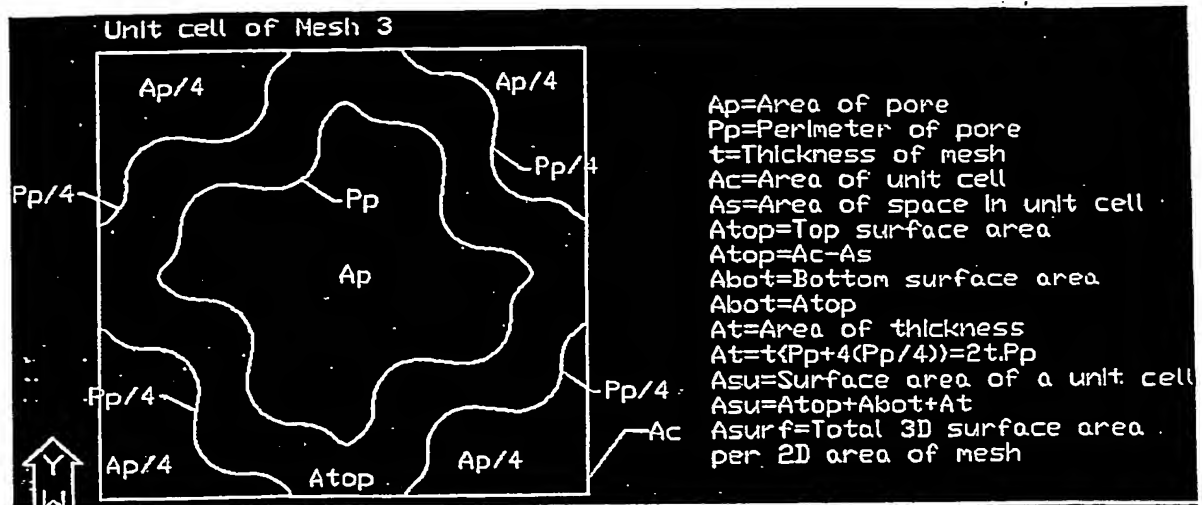


Fig. 9C

Method for Calculating Mesh3 Surface Area

| | | | |
|-------------------|-------|-------|-----------------|
| Area of pore | A_p | 10.89 | mm ² |
| Perimeter of pore | P_p | 15.08 | mm |
| Thickness | t | 0.20 | mm |
| Area of unit cell | A_c | 35.48 | mm ² |

| | | | |
|----------------------------|-------------------------------|-------|-----------------|
| Area of space in unit cell | $A_s = A_p + 4(A_p/4) = 2A_p$ | 21.78 | mm ² |
| Top surface area | $A_{top} = A_c - A_s$ | 13.70 | mm ² |
| Bottom surface area | $A_{bot} = A_{top}$ | 13.70 | mm ² |
| Area of thickness | $A_t = t(P_p + 4(P_p/4))$ | 6.03 | mm ² |

| | | | |
|--------------------------------|------------------------------------|-------|-----------------|
| 3D surface area of a unit cell | $A_{su} = A_{top} + A_{bot} + A_t$ | 33.43 | mm ² |
| Surface area ratio | $A_{surf} = A_{su}/A_c$ | 0.94 | |

Method for Calculating the Surface Area for the Three Dimensional Implant Components

| | | | |
|---------------|---|-------|-----------------|
| Area of disks | $A_d = \pi(r_1)^2 + \pi(r_2)^2 + \dots$ | 44.02 | cm ² |
|---------------|---|-------|-----------------|

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| | | | |
|---------------------------------|---|--------------|-----------------------|
| <u>Surface area of disks</u> | <u>$A_{surfd}=A_d \cdot A_{surf}$</u> | <u>41.38</u> | <u>cm²</u> |
| <u>Area of supports</u> | <u>$A_s=((L_{sup} \cdot R_{sup}) \cdot 1/2) \cdot 2$</u> | <u>13.31</u> | <u>cm²</u> |
| <u>Surface area of supports</u> | <u>$A_{surfs}=A_s \cdot A_{surf}$</u> | <u>12.51</u> | <u>cm²</u> |
| <u>Surface area of implant</u> | <u>$A_{surfi}=A_{surfd}+A_{surfs}$</u> | <u>53.89</u> | <u>cm²</u> |

Fig. 9D

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

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